

Title (en)
An air conditioning compressor.

Title (de)
Klimaanlagekompressor.

Title (fr)
Compresseur pour conditionnement d'air.

Publication
EP 0447027 B1 19940921 (EN)

Application
EP 91300677 A 19910130

Priority
US 49500390 A 19900316

Abstract (en)
[origin: EP0447027A1] An air conditioning compressor comprises a compressor housing (10) including front and rear housing heads (14,16) and a pair of cylinder blocks (26,34) disposed in the housing each defining axially disposed cylinders. The compressor also includes a double-acting piston (30) in each cylinder opening (28), a swashplate and drive shaft assembly (52) having a swashplate (111) driveably engageable with each piston (30) and a driveshaft mounted in each cylinder block coaxially therewith. The compressor (10) further includes a valve assembly located between each housing head and each respective cylinder block. Each valve assembly includes an intake valve means (36) disposed adjacent to the respective cylinder block, the intake valve means includes valve reeds (172,174,176,178) that control flow from the low pressure passages (128,222) to the cylinders, a valve plate (38) disposed adjacent to the intake valve means, a discharge valve means (40) disposed adjacent the valve plate, and a noise reducing gasket means (42) disposed between the discharge valve means (40) and the housing head. The noise reducing gasket means (42) includes a first region (233) disposed at a radially inward part of the gasket means for sealingly limiting gas transfer radially inwardly from the high pressure region, a second region (231) radially outwardly spaced from the first region for sealingly limiting gas transfer from the high pressure region to the low pressure region, and a plurality of resilient members (282) mounted in a cantilever fashion to the second region and having a free end spaced from the first region. <IMAGE>

IPC 1-7
F04B 27/08; **F04B 39/10**

IPC 8 full level
F04B 27/14 (2006.01); **F04B 27/08** (2006.01); **F04B 27/10** (2006.01); **F04B 39/10** (2006.01)

CPC (source: EP KR US)
F04B 25/04 (2013.01 - KR); **F04B 27/1009** (2013.01 - EP US); **F04B 39/1073** (2013.01 - EP US); **Y10T 137/785** (2015.04 - EP US)

Cited by
EP1223348A3; CN106194668A; CN106168206A; DE4326366A1; US5397218A; EP1041283A3; US6382927B1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0447027 A1 19910918; **EP 0447027 B1 19940921**; CA 2033434 A1 19910917; CA 2033434 C 19970311; DE 69104093 D1 19941027; DE 69104093 T2 19950119; JP 2826385 B2 19981118; JP H04224282 A 19920813; KR 0171416 B1 19990330; KR 910017073 A 19911105; US 5100306 A 19920331

DOCDB simple family (application)
EP 91300677 A 19910130; CA 2033434 A 19901228; DE 69104093 T 19910130; JP 2607691 A 19910220; KR 910003776 A 19910308; US 49500390 A 19900316